**IN THE CLAIMS**

The following slate of claims represents the present status of all claims in the application including claims currently amended.

1-69 (Cancelled).

70(Currently Amended). A propellant composition comprising a reduced energy binder, an oxidizer, and a fuel wherein

(a) said reduced energy binder includes a high molecular weight polyester polyol binder polymer including an amount of cured poly(1, 4-butanediol adipate) having a molecular weight ($Mw_n$) above 4000 (uncured) and cured using an isocyanate curing agent, and an amount of one or more energetic plasticizers wherein the plasticizer to polymer ratio is less than 1.6:1;

(b) said oxidizer consists of a material selected from the group consisting of ammonium perchlorate and a mixture of ammonium perchlorate and sodium nitrate, and

(c) said fuel is aluminum.

71(Previously Presented). A propellant composition as in claim 70 wherein said reduced energy binder further comprises an amount of inert plasticizer material.

72(Previously Presented). A propellant composition as in claim 71 wherein said inert plasticizer is triacetin.

73(Currently Amended). A ~~reduced energy binder~~ propellant

composition as in claim 70 wherein the one or more energetic plasticizers are selected from the group consisting of nitrate esters of the group consisting of n-butyl-2-nitratoethyl nitramine; trimethylolethane trinitrate; triethyleneglycol dinitrate; butanetriol trinitrate; nitroglycerin and combinations thereof.

74(Currently Amended). A ~~reduced energy binder~~ propellant composition as in claim 71 wherein the one or more energetic plasticizers are selected from the group consisting of nitrate esters of the group consisting of n-butyl-2-nitratoethyl nitramine; trimethylolethane trinitrate; triethyleneglycol dinitrate; butanetriol trinitrate; nitroglycerin and combinations thereof.

75(Currently Amended). A ~~reduced energy binder~~ propellant composition as in claim 72 wherein the one or more energetic plasticizers are selected from the group consisting of nitrate esters of the group consisting of n-butyl-2-nitratoethyl nitramine; trimethylolethane trinitrate; triethyleneglycol dinitrate; butanetriol trinitrate; nitroglycerin and combinations thereof.

76(Currently Presented). A ~~reduced energy binder~~ propellant composition as in claim 73 wherein the plasticizer is selected from the group consisting of nitroglycerin, n-butyl-2-nitratoethyl nitramine, trimethylolethane trinitrate and combinations thereof.

77(Currently Amended). A ~~reduced energy binder~~ propellant

composition as in claim 74 wherein the plasticizer is selected from the group consisting of nitroglycerin, n-butyl-2-nitratoethyl nitramine, trimethylolethane trinitrate and combinations thereof.

78(Currently Amended). A ~~reduced energy binder~~ propellant composition as in claim 75 wherein the plasticizer is selected from the group consisting of nitroglycerin, n-butyl-2-nitratoethyl nitramine, trimethylolethane trinitrate and combinations thereof.

79(Previously Presented). A propellant composition as in claim 78 wherein the plasticizer is trimethylolethane trinitrate.

80(Currently Amended). A propellant composition as in claim 70 wherein the poly (1, 4-butanediol adipate) has a molecular weight ($MW_n$) above 6,000 (uncured).

81(Currently Amended). An improved high solid propellant composition comprising by weight:

(a) about 10% cured poly(1, 4-butanediol adipate) having a molecular weight ($Mw_n$) ≥6000 (uncured) and cured using an isocyanate curing agent;

(b) about 11% nitroglycerin plasticizer;

(c) about 2.5% triacetin plasticizer;

(d) about 22% aluminum; and

(e) about 53% ammonium perchlorate oxidizer.

82(Currently Amended). An improved high solids propellant

composition comprising by weight:

(a) about 7% cured poly(1, 4-butanediol adipate) having a molecular weight, $(Mw_n) \geq 6000$ (uncured) and cured using an isocyanate curing agent;

(b) about 6.5% n-butyl-2-nitratoethyl nitramine;

(c) about 1.4% triacetin;

(d) about 22% aluminum;

(e) about 60% ammonium perchlorate; and

(f) about 2% dicyandiamide.

83(Currently Amended). An improved high solids propellant composition comprising by weight:

(a) about 11% cured poly(~~t~~1, 4-butanediol adipate) ~~cured from a tetramethylene adipate prepolymer~~ having a molecular weight~~,~~ $(MW_n)$ of about 6,000 (uncured) and cured using an isocyanate curing agent;

(b) about 12% plasticizer selected from the group consisting of nitroglycerin and trimethylolethane trinitrate and combinations thereof;

(c) about 22% aluminum; and

(d) about 53% ammonium perchlorate.

84(Currently Amended). An improved high solids propellant composition comprising by weight:

(a) about 11.3% cured poly (1, 4-butanediol adipate) cured from a tetramethylene adipate prepolymer~~,~~ $(MW_n)$ of

about 6,200 (uncured) and cured using an isocyanate curing agent;

(b) about 12.2% nitroglycerin plasticizer;

(c) about 22% (30μ) aluminum; and

(d) about 53% (200μ) ammonium perchlorate oxidizer.

85(Previously Presented). The propellant composition of claim 83 wherein (d) comprises about 30% ammonium perchlorate and about 22% sodium nitrate.